## CLAIMS

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- 1. A mobile camera telephone comprising:
- a camera module for capturing an image and providing digital data in an RAW format; and
  - an application processor including a CPU for controlling the operation of the telephone and hardware arranged to perform camera image processing on the digital data in RAW format received from the camera module.
- 2. A mobile camera telephone as claimed in claim 1, wherein the camera module comprises optics, an image sensor and an analogue to digital converter only, and is without image processing facility.
- 3. A mobile camera telephone as claimed in claim 1 or 2, wherein the digital data is the digitized output of an image sensor.
  - 4. A mobile camera telephone as claimed in claim 1 wherein the camera module comprises reducing means for reducing the size of the provided digital data.
- 20 5. A mobile camera telephone as claimed in claim 4, wherein the reducing means involves bit depth reduction.
  - 6. A mobile camera telephone as claimed in claim 4 or 5, wherein the reducing means involves lossless compression and the application processor includes means for lossless decompression before image processing.
    - 7. A mobile camera telephone as claimed in any one of claims 1 and 4 to 6, wherein the camera module further comprises means for predetermined and limited image processing.
    - 8. A mobile camera telephone as claimed in any one of claims 1 and 4 to 7, wherein the camera module further comprises gamma correction means for

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gamma correcting the digital data before its provision to the application processor.

- 9. A mobile camera telephone as claimed in any one of claims 1 and 4 to 8,
  5 wherein the application processor performs camera image processing excluding gamma correction.
  - 10. A mobile camera telephone as claimed in any one of claims 1 and 4 to 6, wherein the application processor is a system on a chip.
  - 11. A mobile camera telephone as claimed in any preceding claim, wherein the application processor includes a hard-wired pipeline processor for camera image processing.
- 15 12. A mobile camera telephone as claimed in any preceding claim, wherein the application processor includes a programmable hardware accelerator.
- 13. A mobile camera telephone as claimed in claim 12, wherein the programmable hardware accelerator is a SIMD processing accelerator optimized
   20 for camera image processing.
  - 14. A method of recording an image using a mobile camera telephone comprising the steps of:
- capturing an image in a first camera component of the mobile camera telephone sending digital data in an RAW format from the first camera component to a second application processing component of the mobile camera telephone; and, in the second application processing component, both image processing the digital data in RAW format to produce an image for viewing and controlling the storage of that image in the telephone.

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